Esterification of low-methylation methylcellulose with p-toluenesulfonyl chloride in pyridine medium. Zhur. Priklad. Khim. 25, 1324-6 '52. (NLRA 5:12) (CA 47 no.21:11134 '53)

NENILOVA, I. V.

I.V. NEMILOVA

Oct. 52

USSR/Chemistry - Cellulose Esters

"Esterification of Cellulose With Benzenesulfachlaride in Pyridine,"

Zhur Prik Khim, Vol 25, Nol0, pp 1107-1108

Cellulose esters of benzenesulfonic acid were proposed onto on the average, 2 mols of ienzene-sulfonic acid per mol of glucose residue. The process of esterification of cellulose with benzenesulfochloride in pyridine proceeds analogously to esterification with p-toluenesulfochloride and is accompanied by a combination of Cl with the esterification products.

263 T 52

137-58-4-7908

Translation from: Referativnyy zhurnal Metallurg'ya, 1958 Nr 4. p 221 'USSR'

Koshurnikov. G.S., Nemilova I.V. AUTHORS.

Use of Anti-corrosive Organic Coating on Oxidized Mild Steel TITLE.

and Aluminum Surfaces (Primenentye antikorrozionnogo organicheskogo pokrytiya po oksidirovannoy poverkhnosi: myagkoy

stalı i alyuminiya)

PERIODICAL: Sb. nauchn. tr. kafedr matem. mekhan., khimi., Leningr.

in-t tochnoy mekhar. 1 optiki, 1957. Nr 24. pp 95-102

The resistance to corrosion in a 10% HCl solution of lacquer ABSTRACT: coatings on oxidized specimens of mild steel and Al was invest-

igated with two methods of application of 41-T lacquer to the metals. It is shown that an electrophoretic coating of lacquer on an oxidized surface increases the corrosion resistance of specimens of Al by a factor of 70 and of steel by 25 to 30 fold. Note is taken of the small difference in the corrosion resistance of a lacquer coating applied electrophoretically and by simple im-

mersion of oxidized Al samples.

P.S.

Card 1/1

2. Aluminum--Corrosion prevention 1. Steel--Corrosion prevention

()rganic coatings--Applications

CIA-RDP86-00513R001136520011-1" APPROVED FOR RELEASE: 03/14/2001

NEMINSKIY, Ye. M.

"Experimental Elastometric Investigation of the Regulation of Pressure in the Interior of the Eye of a Rabbit." Cand Med Sci, Inst of Physiology imeni I. P. Pavlov, Acad Sci USSR, Leningrad, 1954. (KL, No 5, Jan 55)

Survey of Scientific and Technical Dissertations Defended at UCSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

NEMINUSHCHAYA, L.I., aspirant (Chernovtsy, ul. Kobylyanskoy, d.35, kv.1)

Changes in the intraorganic vessels of the pulmonary circulation in atelectasis caused by ligation of the lobar bronchus under experimental conditions. Nov.khir.arkh. no.1:13-15 '62.

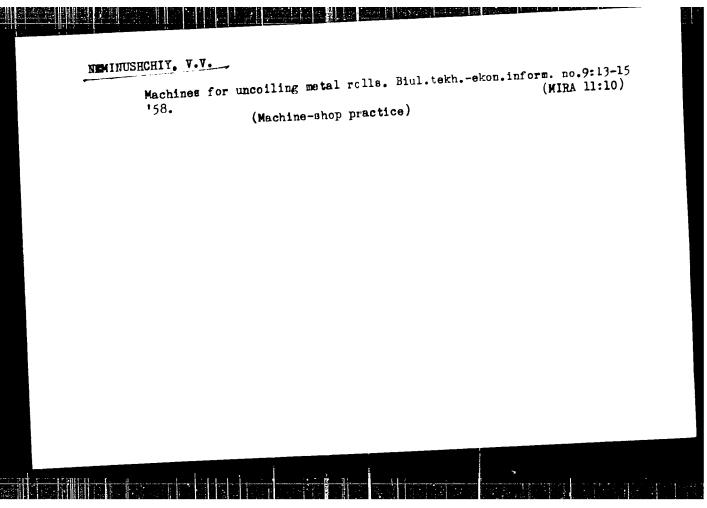
(MIRA 15:8)

1. Kafedra gospital'noy khirurgii (zav. - prof. V.A. Khenkin)

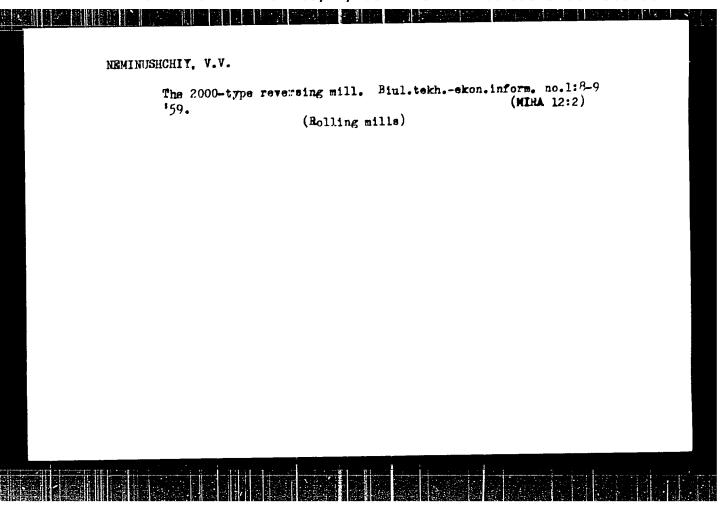
Chernovitskogo meditsinskogo instituta.

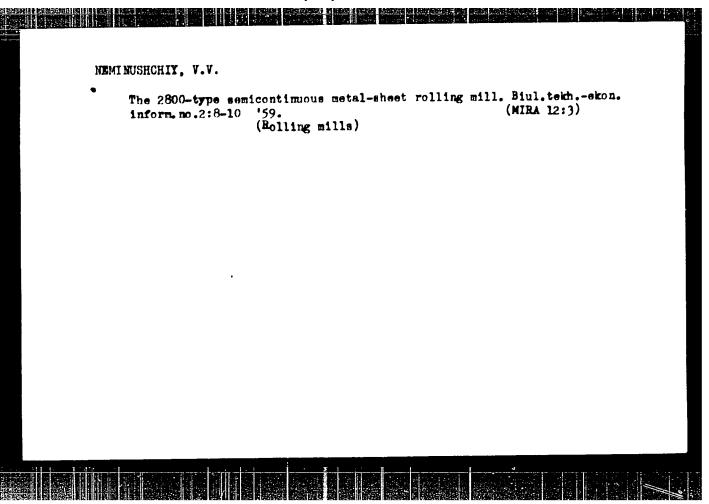
(LUNGS—HLOOD SUPPLY) (ERONCHI—SURGERY) (LUNGS—COLLAPSE)

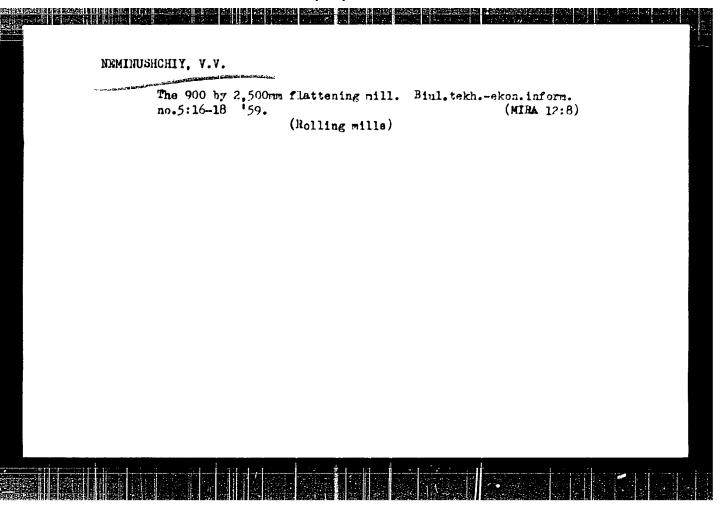
NEMINUSHCHAYA, L. I. (Chernovtsy) Changes in the elastic pulmonary tiesue in experimental lobar atelectasis. Arkh. pat. no.6:29-35 '62. (MIRA 15:7) 1. Is kafedry gospital noy khirurgii (sav. - prof. V. L. Khenkin) Chernovitskogo meditsinskogo instituta (dir. - dotsent M. M. Kovaley) (LINGS-COLLARSE)



APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001136520011-1"







"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001136520011-1 SEPTEMBER AT THE SEPTEMBER SHAPE FOR THE SEPTEMBER SHAPE SHAPE FOR THE SEPTEMBER SHAPE SHA

Neminushehiy, V. V. AUTHOR:

A three-stand cold-rolling mill for copper and copper alloys

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 1, 1960, 10-11

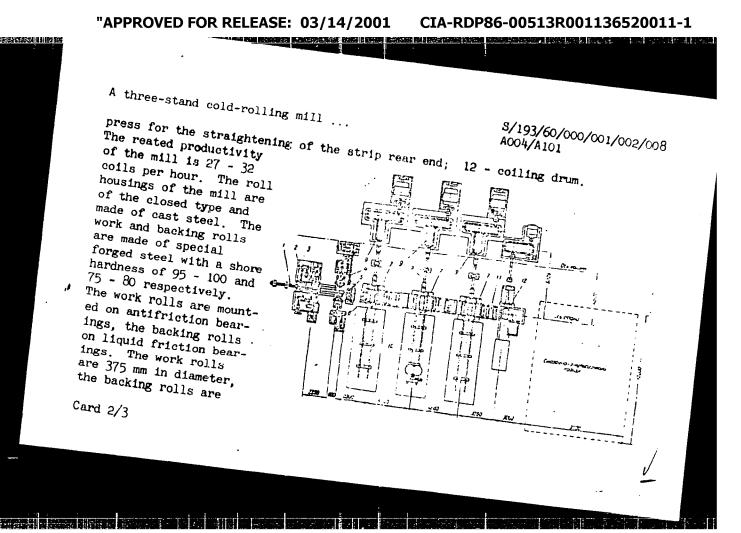
The Novo-Kramatorskiy mashinostroitel nyy zavod (Novo-Kramatorsk Mechanical Engineering Plant) has produced and put into service two continuous "Tandem 1000" three-stand rolling mills which are the first of this type in the Soviet Union and are said to be unequalled in Europe. The mills are intended for the continuous cold-rolling of strips of 5.4-6.0 mm ingoing thickness which are reduced to 1.0-2.5 mm outgoing thickness. The width of the material being rolled is 400 - 800 mm. The strip is delivered to the mill in coils of 1 ton, the inner coil diameter is 500 - 700 mm, the outer diameter 800 - 1,000 mm. The illustration shows a schematic of the layout of the mill.

1 - loading device; 2 - deflector of coil ends; 3 - hydraulic feed conveyer to decoiler; 4 - tapered decoiler; 5 - straightening and stretching machine; 6 feed roller mechanism; 7 - four-high operating stands; 8 - reducer spindles; 9 - combined reducers; 10 - rake-type installation for roll changing; 11 - guide Card 1/3

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001136520011-1"

193/4 - *** AU04/A101



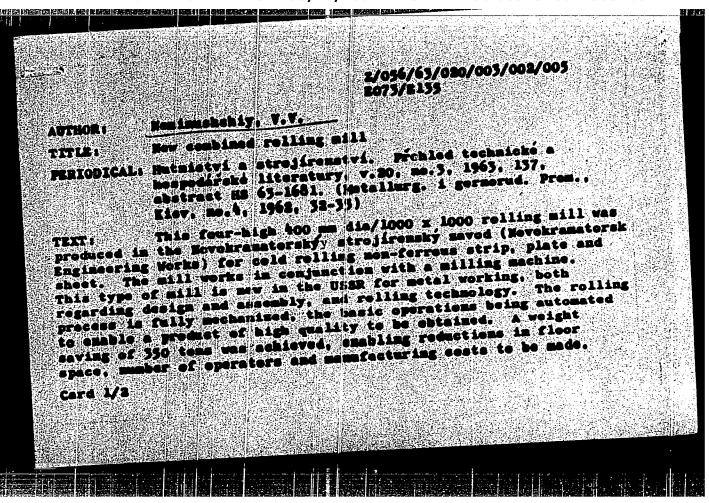
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001136520011-1"

s/193/60/000/001/002/003 AGO4/A1G1

A three-stand cold-rolling mi.....

1,000 mm in diameter. The roll barrel is 1,000 mm long. The work rolls are driven by 600 kw d-c electromotors. The roll pressure can be regulated from the control panel by actuating two adjusting screws each driven by an individual electromotor through a globoid and worm reducer. The optimum rolling conditions were found to be: rough rolling 5.7 - 3.5 - 2.8 - 2.7; rerolling 2.7 - 1.5 - 1.1 -1.0. By changing the transmission ratio the rolling speed in the third stand was boosted to 100-200 instead of 75-100 m/min. The strip tension between the second and third stand amounts to 10-13 tons during the rough rolling, and to 3.0-8. tons during the rerolling. The decoiler with the feed mechanism does not produce a sufficient back tension. For the mills being produced at present it is planned to double the rolling speed. There is 1 figure.

Card 3/3



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Card 3/2				

NEMINUSECHIY, V.V., insh.

Paristra

New mills and devices for rolling nonferrous metals and alloys. Met. i gornorud. prom. no.4:78-84 Jl-Ag '63.

1. Novokramatorskiy mashinostroitel nyy zavod.

NEMIRA, K. S.

USER/Miscellaneous - Structural materials

Care 1 1/1 Pab. 77. - 11/17

Authors 2 Variety, N. F., and Mendra, I. B., Engineers

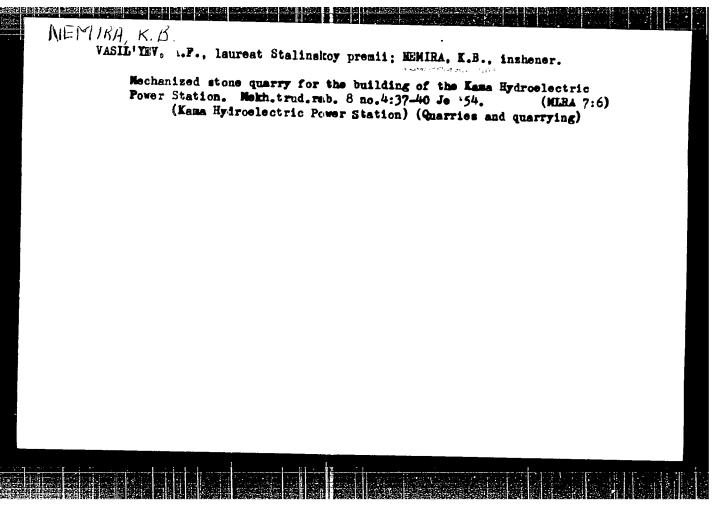
Title 3 Mechanized store quarry for the construction of the Kensk hydroelectrical station

Periodical 3 Meth. trud. rab. 4, 37 - 40, June 1954

Abstract 2 The mechanization of stone quarry work and the delivery of materials for the construction of the hydroelectric plant on the Chusova River near Kanak, are described. Drawings, illustration.

Institution : ...

Submitted : ...



SHEPELSV, Aleksandr Grigor'yevich, ASHCHEPKOV, Yevgeniy Andreyevich;

KOZHEVNIKOV, Sevva Yelizarovich; MEMIRA, Kirill L'yevich; KITATNIK,
Abrem Usherovich; SINAGOV, V.H., red.; MAZUROVA, A.F., tekhn.red.

[With our friends; impressions of Siberians visiting people's
democracies] U Nashikh druzei; voechatlenila sibiriakov, pobyvavshikh
v stranakh narodnoi demokratii. [Novosibirsk] Novosibirskoe knizhnoe
izd-vo, 1957. 127 p.

(China-Description and travel)

(Czechoslovakia-Description and travel)

(Germany, East-Description and travel)

NEMIRA, V. G., kand. med. nauk; NOVOZHILOV, D. A., prof.

Vitamin requirement of children in the rehabilitation period following poliomyelitis. Ortop., travm. i protez. 22 no.8:34-36 Ag '61.

(MIRA 14:12)

1. Iz Gosudarstvennogo nauchno-issledovatel skogo detskogo ortopedicheskogo instituta im. G. I. Turnera (dir. - prof. M. N. Goncharova)

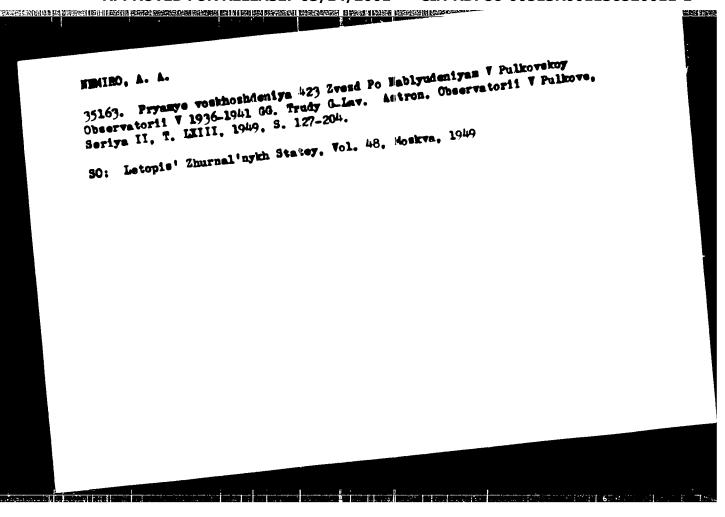
(POLIOMYELITIS) (VITAMIN METABOLISM)

N.2184, V.L., Eng.

Volga-Don Canal

I.stallation work in the Volga-Don Unit, Ordani. Wider. Stroit. 21 No. 7, 100
9. Monthly List of Russian Accessions, Library of Congress, Lecender 1/5- 1993, Uncl.

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NEMIRO, A. A.

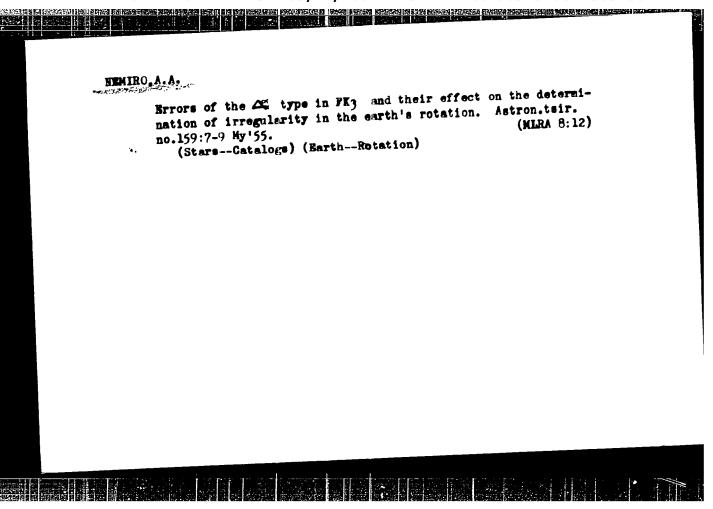
37171. Vsesoyusnaya astrometricheskaya konferentsiya 15-17 Dekahrys 1948 G.
(Leningrad). Astron. Zhurnal 1949, Vyp. 6, s. 375-77.

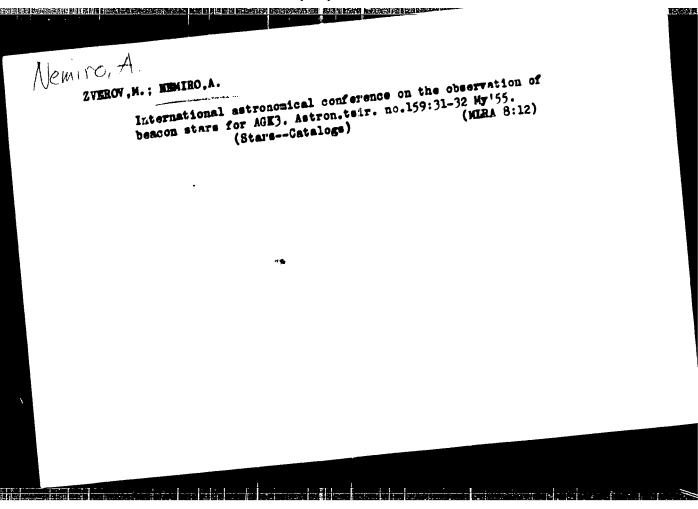
S0: Letopis' Zhurnal'nykh Statey, Vol 7, 1949

	Fife, a rvetsk is nauks o proiskhezh <u>d</u> enil zemli i elsnet Zbovidt seleme in the erigin f the earth and the planets_/. Leningrad, "Zhanie", 1 53. 36 p.
	0: Monthly List of Russian Accessions, Vol. 7 No May 184.
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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001136520011-1 CHARLES BERTHARD BERTHARD

Name: NEMIRO, Andrey Antonovich Dissertation: Investigation of the results of absolute determinations in direct ascent of stars

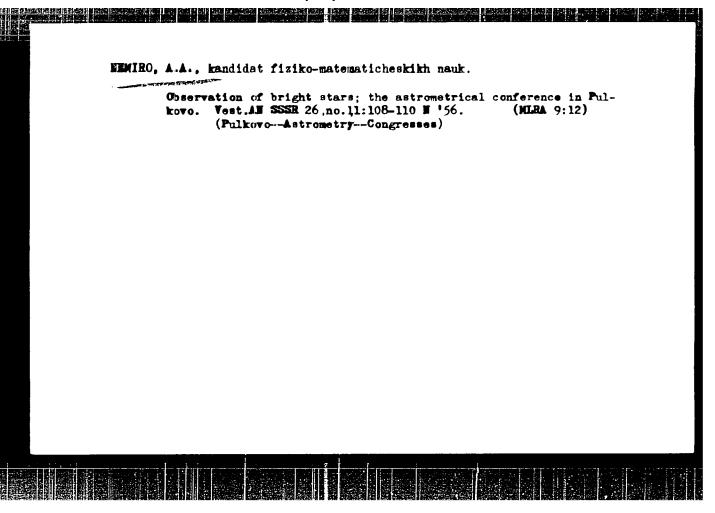
Degree: Doc Phys-Math Sci

Affiliation: [Not indicated]

Defense Date, Place: 11 May 56, Council of Main Astronomical Observatory, Acad Sci USSR

Jource: BMVO 13/57

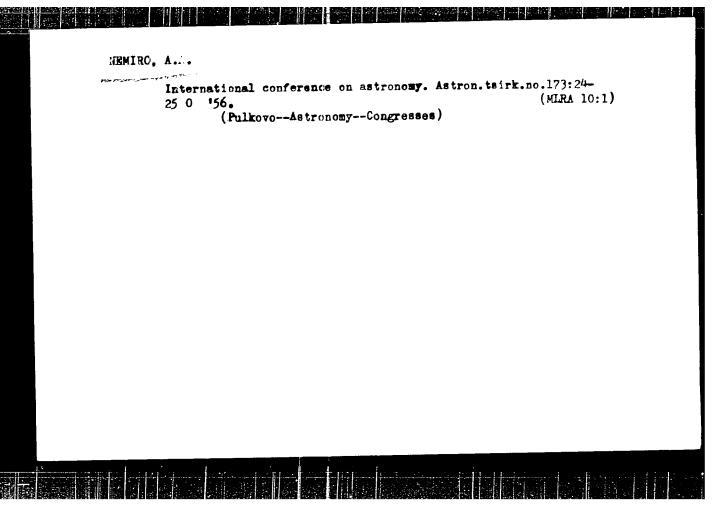
Internati 38 M ¹ 56.	onal conference on astrometry. (Pulkovo-Astrometry-Congress	Nauka i shisn'	23 no.11: (MLRA 9:11)



NEW IRO. A.A.; PAVLOV, N.H.

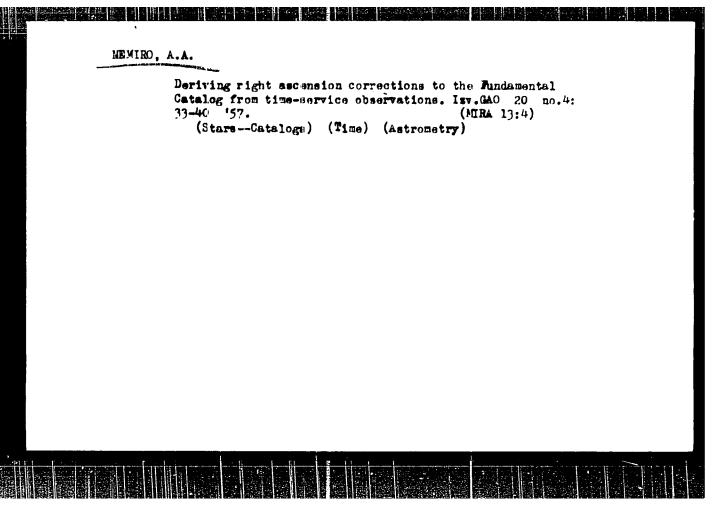
The necessity for taking into account the 10 type corrections of the FK3 in the time service [in Russian and English]. Astron. zhur. 33 no.3:404-409 My-Js '56. (MIRA 9:10)

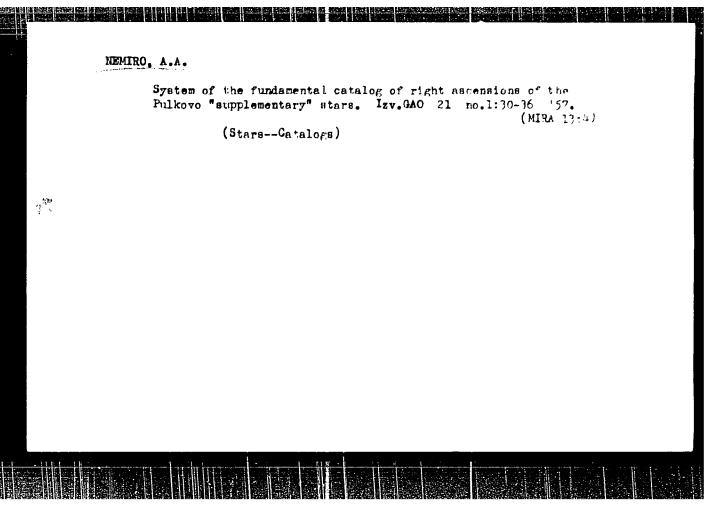
1.Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR. (Stars-Catalogs)



"Systematic of the errors of the FK3 Type and Their Influence of the Determination of Time," The International Association of Geodesy; Abstracts of the Reports of the XI General Assembly of the International Union of Geodesy and Geophysics, Moscow, Izd-vo AN SSSR, 1957, 63 p.

The comparison of fundamental and new absolute catalogues with FK3 permits findings in the latter considerable systematic errors of the type of the type of the Italian Size of the Size

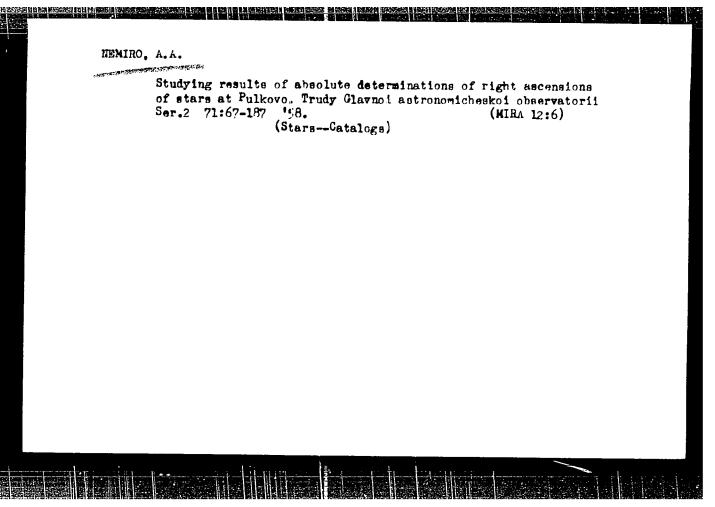




TURNITINOVA, K.S., tekhn.red.

[Transactions of the 13th Astrometrical Conference of the U.S.S.R.]
Trudy Vessquanci astrometricheskoi konferentsii. Leningrad,
Isd.Akad.neuk SSSR, 1958, 92 p. (MIRA 12:6)

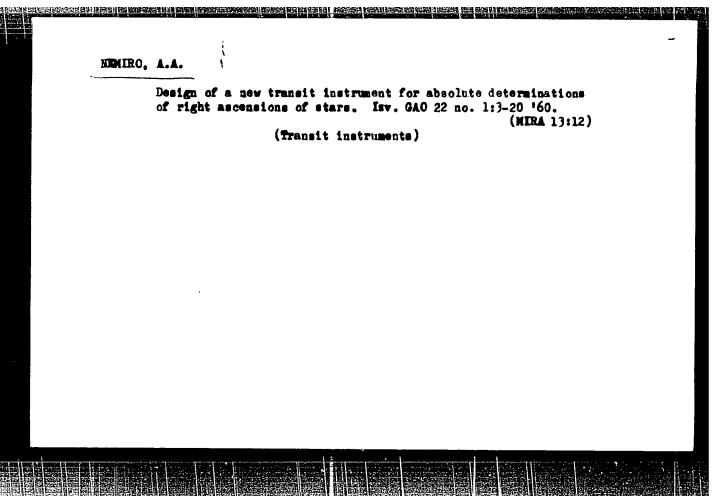
1. Vessoyusnaya astrometricheskaya konferentsiya. 13th, Pulkovo.
1956. (Astrometry)

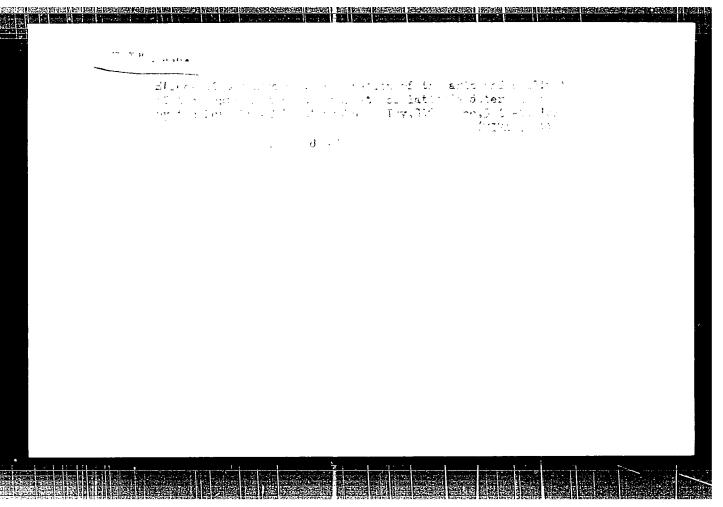


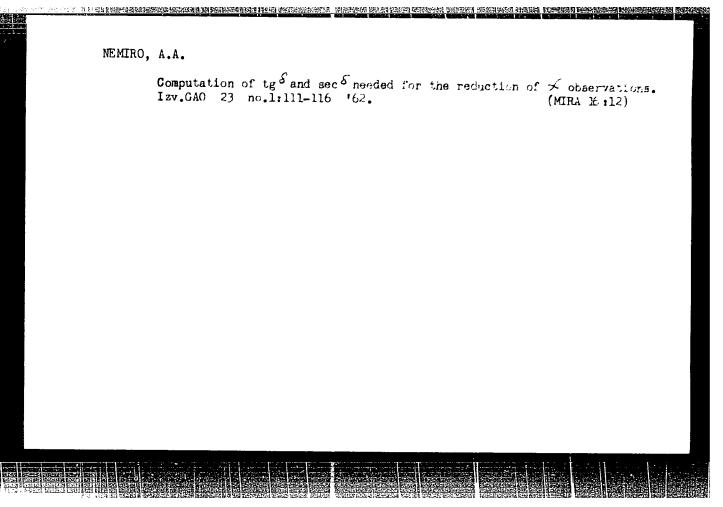
NEMIRO, A.A., doktor fiziko-matem.nauk, otv.red.; BEDIN, V.S., red.

[New instruments and methods in the meridian astrometry; reports made at the meeting of the Commission No.8 (Positional Astronomy) during the 10th Congress of the International Astronomical Union in Moscow in August 1958 ("discussion on instruments")] Hovye instrumenty i metody v meridiannoi astrometrii; doklady, prochitannye na zasedanii Komissii no.8 (pozitsionnoi astronomii) vo vremia X s ezda Mezhdunarodnego astronomicheskogo soiuza v Moskve v avguste 1958 goda ("instrumental naia diskussiia"). Moskva, Izd-vo Akad.nauk SSSR, 1959. 97 p. [Parallel texts in Russian and English, French, or German.]

1. Pulkovo. Glavnaya astronomicheskaya observatoriya. (Transit circle)







L 40821-65 EWT()/EWG(v) 1 ACCESSION NR: AT5009179	PG-4/Ps-5/Pq-4/Psg-4/Pss-2 UR/0000/63/000/000	GS/GW 0/(087/0099	35
AUTHOR: Nemiro, A.A.			BH.
TITLE: Determination of the secorbit from meridian observation	ro points of catalogues and pa s of the sun	runeters of the	eurth's
SOURCE Astrometricheskuya k Izd-vo AN SSSR, 1963, 87-99	onferentalya SSSR 15th, Pull	1980. Tri	idy Moscow
TOPIC TAGS: astrometry, earti	ı erbit, orbital element, sun,	ncon, epheme	ris time
ABSTRACT: The author present for the determination of the zero of observed deviations of the sun advantages of these methods when Newcomb, are pointed out for the over an annual cycle. It is noted losing their applicability as a res Simultaneous determination of the	points of catalogues. It is si in latitude are used in the Be n reducing solar observations case when observations are that the three above-mention	town that only to seel and Airy n , as compared unevenly distril ed a proximate sent-day compu- ts of catalogues	he component to that of the control

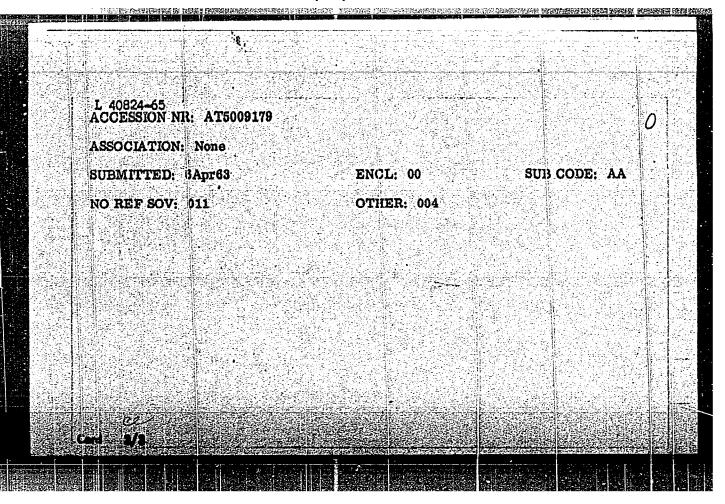
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L 40824-65 ACCESSION NR: AT5009179

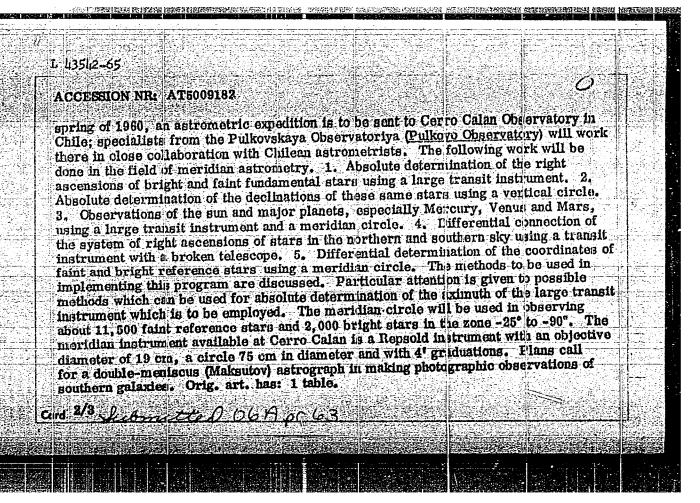
given for tures different cases of distribution of solar observations over an annual cycle. 1) a uniform distribution; 2) nine mean monthly values for the spring-summer-autimn period; 3) six mean monthly values for the spring (February, March, April) and autumn (August, September, October) periods. The weights obtained are varied for two other cases of the solution of the equations, related to observations of λ and δ (simultaneous and separate). It is recommended that the correction to the initial longitude of the sun (ΔL_0) and to the mean diurnal motion (Δn) be excluded from the solution because their inclusion essentially lessens the weight of the correction to the equinox AA and to the longitude of the perihelion of the earth's orbit Δn . L₀ and n are related to ephemeris time time and therefore can be derived with sufficient accuracy from position observations of the moon. It also is not necessary to include corrections for astronomical flexure A b and refraction Ar in the simultaneous solution (for L and 6) because this considerably reduces the weight of the correction $A \delta_0$ to the equator in the catalogue. It is shown that flexure should be determined separately. The desirability of a uniform distribution of solar observations during the year is noted. Therefore, it is recommended that, in addition to the solar observations made in the European part of the SSSR, positional observations of the sun be made in the Far East where the sky is clear during most of the autimn-winter months. Orig. art. has: 25 formulas: 2 tables and 1 figure.

Card 2/3

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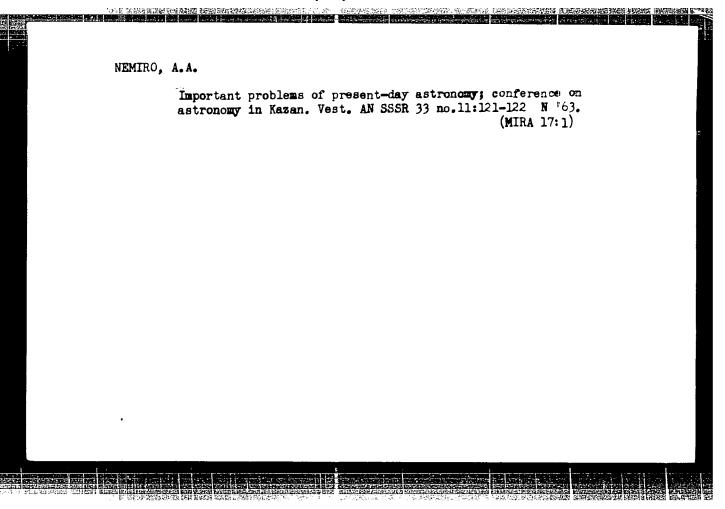
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MIKHAYLOV, A.A.; NEMIRO, A.A.

Symposium on astronomy, held in Paris. Vest. AN SSSR 33 no.10: 73-74 0 '63. (MIRA 16:11)

1. Chlen-korrespondent AN SSSR (for Mikhaylov).



CIA-RDP86-00513R001136520011-1 "APPROVED FOR RELEASE: 03/14/2001

ACC NR: AP7007604

SOURCE CODE: UR/0030/66/000/010/0096/0097

AUTHOR: Nemiro A. A. (Doctor of Physico-Pathomatical Sciences)

ORG: none

TITLE: Seventeenth All-Union Astrometric Conference

SOURCE: AN SSSR. Vestnik, no. 10, 1966, 96-97

TOPIC TAGS: astronomic conference, star, lunar surface, stellar

parallax SUB CODE: 03 ABSTRACT:

The Seventeenth All-Union Astrometric Conference was held at Pulkovo during the period 31 May-3 June. It was attended by more than 100 representatives from the USSR, German Democratic Republic, Mongolia, Rumania and Yugoslavia. D. D. Polozhentsev emphasized the need for a close relationship between the coordinate systems for moderately faint and bright stars. This same theme was the subject of a report by M. S. Zverev, presently head of the Soviet Astrometric Expedition to Chile, which has discovered that there are large systematic errors in the coordinates and motions of southern stars. V. V. Podobed reported on results of investigation of a new merician circle developed in the USSR and set up at the State Astronomical Institute. This instrument makes it possible to broaden considerably the range of investigations by Mossow astrometrists, particularly in respect to absolute determinations of star coordinates. A. A. Nemiro and Yu. S. Streletskiy told of the construction of a large transit instrument by Pulkovo Observatory and the Lenin-

Card 1/2

是全国企业的企业的 (1914年) (1914年) [1914年] [19

ACC NR: AP7007604

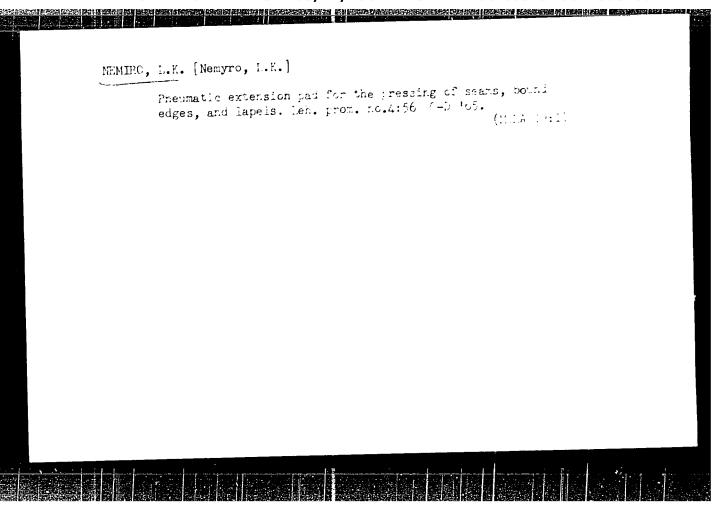
grad Optical-Mechanical Combine; late this year it will be sent to Chile for carrying out absolute determinations of the right ascensions of stars of the southern sky. G. K. Tsimmerman, senior astronomer of the Mikelayev-skaya Observatory, proposed a new original design for a vertical circle which will make possible daytime observations of rather faint stars — to the 4th and 5th magnitudes. A. N. Deych told of current problems being solved using astrographs with a long focal length. These problems include determination of star parallaxes, which is related to determination of the distance scale in astronomy and the detection of faint stars of the 15th-17th magnitude with appreciable proper motions and therefore situated at relatively short distances from the sun. Reports by M. A.

Sosnina and other dealt with long-focal length astrographs being constructed at Pulkovo and Goloseyevo. The First of these is intended for star observations and the second for detailed study of the lunar surface.

(JPRS: 39,180)

The second secon

Card 2/2



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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001136520011-1 e de la company de la company

USSR / General Problems of Pathology. Tumors. Comparative Oncology. Tumors of Man.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102630.

: Nemiro, E. A.; Seplite, R. K. Author

: Not given. Inst

: A Rare Type of Peripheral Lung Cancer. Title

Orig Pub: Vopr. onkologii, 1957, 3, No 6, 740-742.

Abstract: Description of a case of pulmonary carcinoma in a 34-year-old woman. The disease followed a course of rheumatoid arthritis. Roentgenologically, a clear spherical shadow 4cm x 4cm was discovered in the lower lobe of the right lung; it increased gradually; periostosis and osteoporosis were noted along the entire length of the long and short tubular bones. The tentative diagnosis was hydatic cyst of the lung; but, on autopsy, an undifferen-

Card 1/2

CIA-RDP86-00513R001136520011-1" **APPROVED FOR RELEASE: 03/14/2001**

USSR / General Problems of Pathology. Tumors. Comparative Oncology. Tumors of Man.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102630.

Abstract: tiated carcinoma of the lower lobe of the right lung with multiple metastases into various organs

was discovered.

Card 2/2

75

VITENBERG, G.P.; NEMIRO, Ye.A.

Report on the Fourth Latvian Republic Conference of Oncologists and the Third Out-ofTown Session of the Institute of Oncology of the Academy of Medicine of the U.S.S.R. Vop.onk. 5 no.6:756-759 59.

(MIRA 12:12)

(ONCOLOGY--CONGRESSES)

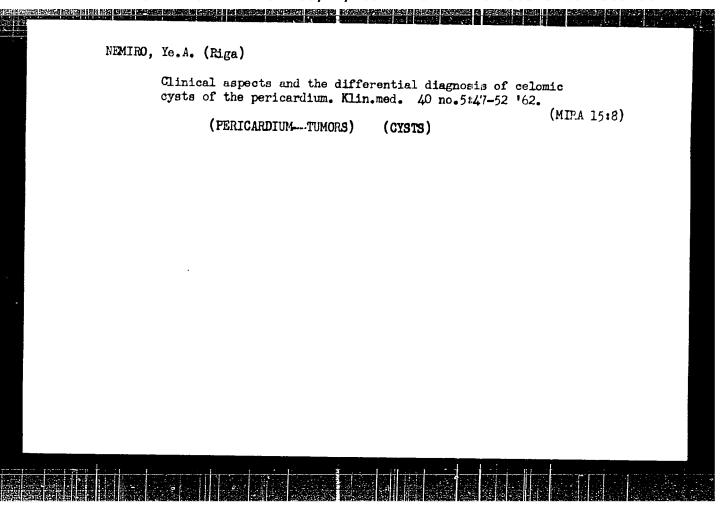
NEMIRO, Yo. A.

Current problems of the diagnosis and differential diagnosis of peripheral lung cancer. Vop. klin. lech. zlok. novoobraz. 7:147-159

16134010000

1. Kafedra rentgenologii i radiologii (zav._dots. A. L. Polyskov) Rizhskogo meditsinskogo instituta (dir.4 prof. V. A. Kal'berg).

(LUNG NEOPLASMS diag)



NEMIRO, Ye.A. (Riga)

Clinical aspects of intrathoracic neurogenic tumors. Elin.med.
(MIHA 15:12)

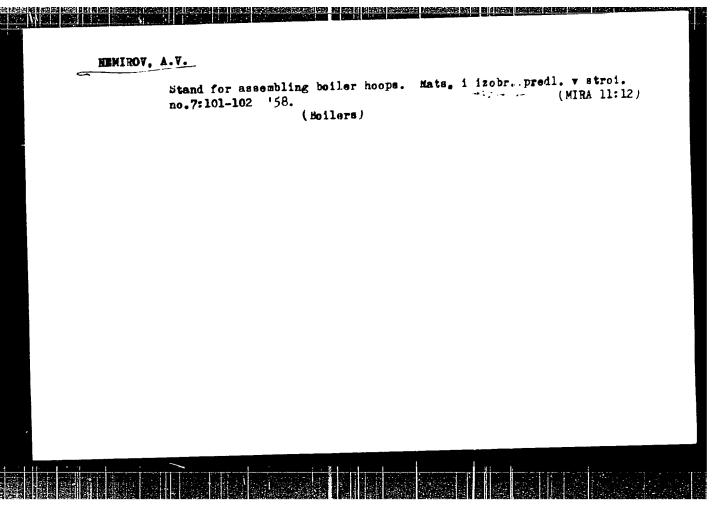
Lono.10:47-53 0 '62.

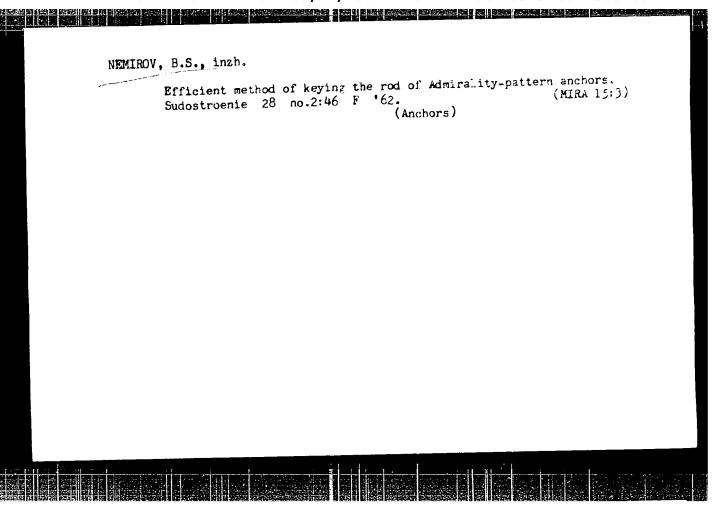
1. Iz kliniki fakul'tetskoy knirurgii (zev. - dotsent 3.T.
Ezeriyetis) Rizhskogo meditsinskogo institute (dir. - prof. V.A.
Ezeriyetis) Rizhskogo meditsinskogo otdeleniva respublikanskoy
Kal'berg)i rentgenologicheskogo otdeleniva respublikanskoy
klinicheskoy bol'nitsy imeni P.Stradynya (glavnyy vrach L.G.
Shchertakova).

(CHEST_TUMOR3)

ALISOV, P.A., general-mayor meritarinekoy slizhby, prof.; POLDASOV, V.K..
kard. med. nank; MAZARIERY, A.M., poliphrovik meditariokoy slizhby,
kard. med. nank; NAMIRO, Fe.A.; TARIERY, V.M., kari. med. nank;
MEBEL*, B.D., kand. med. mank

Experience in clinical art interatory diagnosis of soute respiratory diseares in man. lon..med. znur. nc. 1:49-53 Ja *66
(Misa 19:7)





MEMIROV, G. V.

Nemirov, G. V.

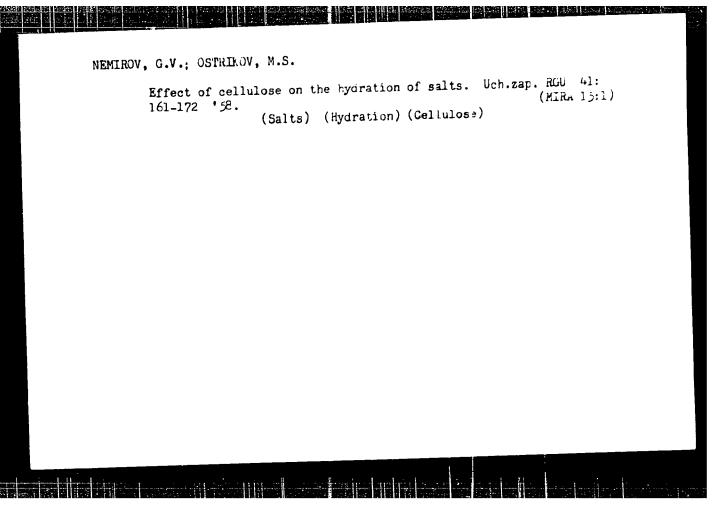
"Sorption on Cellulose from Aqueons Solutions of Certain Galts." Fin Higher Education USSR. Rostov State U imeni V. M. Molotov. Thair of Physical and Colloid Chemistry. Rostov na Donu, 1955. (Dissertation for the Degree of Candidate in Chemical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

NEMIROV, G. V.

"The Sorption on Cellulose from Aqueous Solutions of Some Salts Concerned Special Problems of Adsorption of Electrolytes and the Properties of Adsorbents."

report presented at the Section on Colloid Chemistry, VIII Mendeleyev Conference of General and Applied Chemistry, Moscow, 16-23 March 1959. (Koll. Zhur. v. 21, No. 4, pp. 509-511)



OSIFOV, O.A.; PANINA, M.A.; KASHIRENINOV, O.Ye.; NEMIROV, C.V.; SHELOMOV, I.K.

Dielectric constant of binary liquid systems consisting of polar components. Zhur.ob.khim. 31 no.10:3153-2160 0 '61.

(Systems (Chemistry)) (Dielectrics)

MARCHENKO, V.G.; TAUEE, A.M., prof.[deceased]; NEMIROV, I.A.; SHMID,
V.A.; MOROZOVSKII, N.G., kapitan dal'nego plaveniya kontradniral, red.; BORISOV, V.V., red.; BALASHOVA, M.V., red.leksikograf; BEUNIKOVA, N.D., red.-leksikograf; SAVIN, B.V.,
led.-leksikograf; KUZ'MIN, I.F., tekhm. red.

[English-Russian naval dictionary. Approximately 40, 000 words
and phrases]Anglo-russkii voenno-morskoi slovar'. Ped red. N.J.
Morozovskogo. Okolo 40,000 slov i sochetanii. Moskva, Voenizant
1962. 851 p.
(MIRA 15:12)
(Naval art and science—Dictionaries)
(English language—Dictionaries—Russian)

119-58-4-4/15 Nemirov, L.L. AUTHOR:

A New Induction Coil for the Differential Manometer DPES-C (Novaya induktsionnaya katushka dlya difmanometra DPES-T) TITLE:

Priporostroyeniye, 1958, Nr 4, pp. *0-12 (USSR) PERIODICAL:

with remote indication on a separate device - the wiring circuit employed being based upon the prin-The old manometers DPES ABSTRACT: ciple of the balanced induction bridge - had the following dis-1.) Measuring errors in the remote indicating instrument advantages:

amounted to up to ± 2.5%. 2.) Transmission length was not allowed to be more than 500 m because of the necessary resistance of 1, ohm.

3.) They had a number of mechanical faults (high total weight,

These drawbacks were eliminated by the newly developed induction coil and by the employment of a new wiring scheme. The latter is a differential - transformer - compensation scheme.

The following technical data are given for the new coil:

Card 1/2

CIA-RDP86-00513R001136520011-1" **APPROVED FOR RELEASE: 03/14/2001**

119-58-4-4/15 A New Induction Coil for the Differential Manometer Number of windings (PEV -0.27 = type of wire used) of primary coiling 3100 Number of windings of secondary coiling 2 x 500 x 2 (PEV -0.27) Feed voltage of primary coiling 10 V Feed current of primary coiling 0.120 A Piston way 30.5 mm Interspace for piston 1 mm Weight of coil in kg 0.220 Measurements of coil 125 mm Length of cable for remote indication 1000 m There are 3 figures and 2 tables. Card 2/2

sor/119-59-3-5/15 $\mu(2), 9(6)$

Nemirov L. L., Engineer AUTHOR:

Tension-Compression Meter With a Force Compensation (Tyagona-TITLE:

poromer s kompensatsiyey po sile)

Priborostroyeniye, 1959, Nr 3, pp 15-17 (USSR) PERIODICAL:

In this paper the circuit diagram and the component parts ABSTRACT:

of this device are described and the basic steps in its calculation are discussed. In this device the pressure to be measured is converted into a proportional deflection of

the pointer on the scale of the device and into an a.c. signal (50 cycles) The sensitivity of this device is better than 0.1%, the error of measurement amounting to + 0.5% of the deflection. The maximum time required for one measurement is 4 - 5 sec. A "silfon" of stainless steel can be used as a sensitive element of this device. The force compensation is accomplished by a two phase induction motor of the type RD-09. The first figure shows the principal circuit diagram of the instrument, by which the principle of operation of the device is explained. Measurements carried out according

to the principle of compensation offer some advantages which

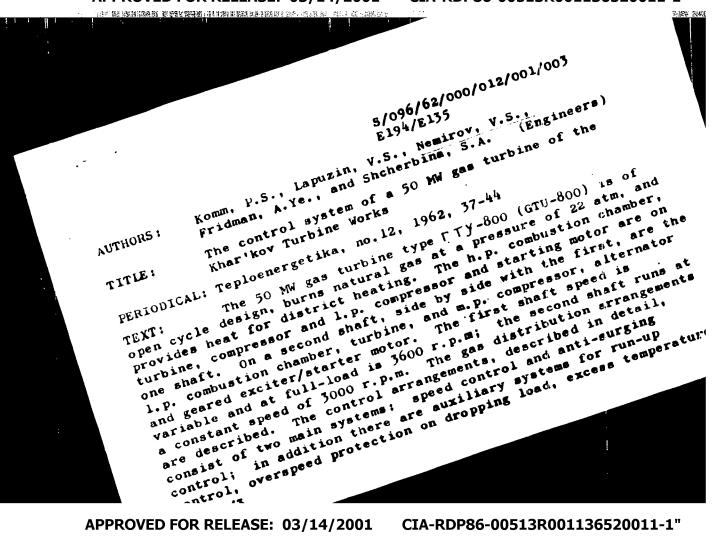
are due to the performance of the sensitive element under Card 1/2

CIA-RDP86-00513R001136520011-1" APPROVED FOR RELEASE: 03/14/2001

Tension-Compression Meter With a Force Compensation SOV/113-53-6/15

very small displacements: 1) In the neighborhood of a certain point of the characteristic curve its non-linearity does not affect the performance of the device. 2) The influence of the hysteresis is also reduced to a minimum. 3) If the displacements are very small (almost equal to zero), the sensitive elements can be used for a much longer time. In the next section of this paper a detailed discussion of the static calculation of the device is presented. The kinematic circuit of the device is illustrated in a diagram. In the last section the required stiffness of the "silfon" is approximately evaluated. If small pressures are to be measured, sensitive elements with a considerable stiffness (~500 g/mm) can be used as such a stiffness guarantees a high stability of the element with respect to time. There are 3 figures 1 table and

Card 2/2



5/096/62/000/012/001/003 The control system of a 50 MW gas ... E194/E135

protection and others. The speed control pick-up is a low output centrifugal pump (impeller) on the l.p. shaft; there is a twostage amplification with hydraulic positive and negative feedback. An accelerator (differentiator) is provided to make the speed governor operate quickly. The anti-surging control is very similar in principle to the speed governor and also uses two-stage amplification; the pick-up operates according to the speed of the h.p. shaft instead of according to the compressor air flow and pressure, which is the more usual. The operation of the system is explained and the construction of the various valves and other components is illustrated diagrammatically. The run-up controller takes over when the starter motor has run the l.p. shaft up to 1200-1400 r.p.m. and automatically brings its speed up to 2750 rpm, when the speed governor takes over. Auxiliary circuits which prevent false starts when the electrical load is thrown off are described. The temperature controller uses as pick-ups low inertia thermocouples in the h.p. and l.p. turbine exhaust ducts; they commence to operate if the temperature rises 15 °C above the normal value and shut down the set at 25 °C excess temperature. Card 2/3

S/096/62/000/012/001/003
The control system of a 50 MW gas ... E194/E135

The overspeed governor is independent of the main speed governor and cuts off the fuel supply. Selection of the control arrangements is discussed and design principles are explained, with particular reference to dynamic stability. Transient process performance curves of the control system show that it is stable. There are 9 figures.

ASSOCIATION: Khar'kovskiy turbinnyy zavod (Khar'kov Turbine Works)

Card 3/3

SHUERNKO-SHUBIN, L.A.; FRIDMAN, A.Ye., inzh.; NEMIROV, V.S., inzh.

About Professor I.I. Kirillov's book *Automatic control of steam and gas turbines. ** Energomashinostroenie 9 no.7:42-43 Jl '63.

1. Chlen-korrespondent AN UkrSSR (for Shubenko-Shubin).

(Turbines) (Automatic control)

(Kirillov, I.I.)

ACCESSION MR: AP4034656

\$/0096/64/200/005/0062/0067

AUTHOR: Nemirov, V. S. (Engineer)

TITLE: On some criteria of the work quality of hydraulic servomotors with cut off valves

SOURCE: Teploenergetika, no. 5, 1964, 62-67

TOPIC TAGS: hydraulic device, cutoff valve, equilibrium condition, servometer / VKT 100 servometer turbine, L turbine oil

ARCTRACT: The author studied the performance of hydraulic servomblers with cutoff valves, and obtained quantitative estimates of their rigidity. Investigations were made on the appearance of 'slip' in a linear spring servemeter of the type VKT-100. For this case the conditions for unstable equilibrium were obtained as given by the expression $\frac{dR}{dh} < 0 \quad \text{and} \quad \frac{dR}{dh} > F[\lg \gamma] + c, \text{ where } R \text{ is the}$

external load on the piston of the servomotor, in the stroke of the servomotor, c the rigidity of the spring, F the effective area of the piston, and tan 7 = -dp/dh (p is the oil pressure under the piston). Experiments were also performed on such a servomotor with a cutoff valve provided with special loading devices.

Carc 1/2

ACCESSION NR: AP4034656

The valve was 60 mm in diameter and had a hydraulic return coupling. For the pressure measurements, a 0.5-class manometer was used for static experiments and a mercury differential manometer was used for dynamic measurements. The working fluids used were water and brand L turbine oil. The plots of R versus h showed good agreement with the theory. Orig. art. has: 6 formulas, 9 figures, and

ASSOCIATION: Khar'kovskiy turbinny y zavod imeni Kirova (Kharkov Turbino Factory)

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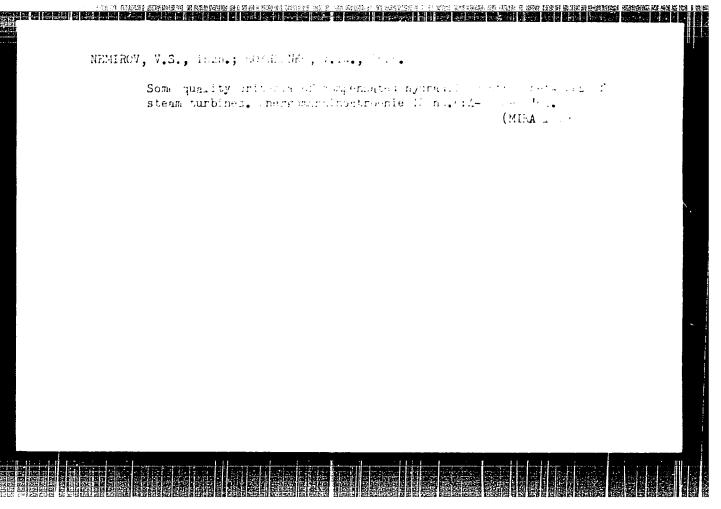
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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001136520011-1"

NEMIROV, V.S., insh.; YAVORSKIY, V.Yu., insh.

Outflow of water and turbine oil through short narrow ring slots.
Energomachinostrocnic 11 no.7:5-8 J1 '65. (MIRA 18:7)

sov/53-59-8-16734

Translated from: Referativnyy Zhurnal Fizika, 1959, Nr 8, p 244 (USSR)

AUTHORS: Fialko, Ve.I., Peregudov, F.I., Nemirova, E.K.

TITLE: Preliminary Results of Radar Observations of Meteors at λ -10 Meters

PERIODICAL: Byul. Komis. po kometam i meteoram Astron. Soveta AN SSSR, 1953, Nr 2,

pp 39-43

ABSTRACT: The article describes the results of radar observations of meteors, carried out in September 1956 with the aid of a meteor radiologator of the "TPI-1"

type. The apparatus had the following parameters: wave-length 10 m; pulse power of the transmitter ~ 100 kw; pulse duration 5μ sec; frequency of pulse repetition 300 and 600 pps; sensitivity of the receiver $\sim 10^{-13}$ -- 10^{-14} w; transmitting and receiving antennas were horizontal half-wave oscillators, situated at a height of $\lambda/3$ above the ground. The article

provides graphs of the daily measurement of meteoric activity, of

distributions according to distance and duration and of the relation between

the hourly number of meteors and the power of the transmitter.

V.A. Naslednik

Card 1/1

sov/58-59-8-18736

Translated from: Referativnyy Zhurnal Fizika, 1959, Nr 8, p 244 (USSR)

AUTHOR:

Nemirova, E.K.

TITLE:

Some Characteristics of the Resonance Reflection of Radio-Waves From

Meteor Traces

PERIODICAL:

Byul. Komis. po kometam i meteoram Astron. Soveta AN USSR, 1958, Nr 2,

pp 46-49

ABSTRACT:

The article investigates resonance phenomena during the reflection of radio-waves from meteor traces. With the help of the Kaiser-Kloss theory of reflection the frequency dependences of the reflection coefficient in the vicinity of resonance are calculated for traces with sharply defined limits. The amplitude-frequency characteristics of an expanding trace are cited. It is shown that resonance phenomena can lead to a variation in the amplitude of the reflected signal and of the phase of the high-frequency filling and, in the case of a sufficiently broad-banded signal can influence the form of the envelope of reflected pulses. It is shown

Card 1/2

Some Characteristics of the Resonance Reflection of Radio-Waves From Meteor Traces

that the enumerated phenomena can have a bearing upon the determination of the coordinates and other characteristics of the meteor, and can also be used for determining such quantities as the initial diameter of the trace etc.

V.A. Nasledník

Card 2/2

S/:12/60/000/006/026/032

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1960, No. 6, p. 428

AUTHOR: Nemirova, E. K.

TITLE: Pulse Signal Distortion at a Resonant Reflection From Meteor Trains PERIODICAL:

Izv. Tomskogo politekhn. in-ta, 1958, No. 86, pp. 150-162

TEXT: The author discusses briefly the principal conclusions of the Kayser and Kloss's theory on the resonant reflection of radar signals from a column of ionized gas which is formed in the atmosphere during the passage of a meteoria body. Frequency characteristics of the meteor train are considered. A calculation of resonance characteristics for the ionized gas column in a form of a homogeneous cylinder with sharply outlined boundaries is given. The dependence of the reflection coefficient of columns for heterogeneous cylinders with various forms of electron density distribution along the radius is explained From an analysis of frequency characteristics of the column the shape of the reflected signal is found. The author considers the transient process when a single square jump of the sine voltage envelope is reflected from a homogeneous cylinder.

Card 1/1

A. V. M.

23703

S/035/61/000/C04/C34/C34/C38 A001/A101

9,9600 AUTHOR:

Nemirova, E.K.

TITLE:

Polarization effect at reflection of radio waves from meteoric trails (influence on duration of reflection)

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 4, 1961, 54-55, abstract 4A441 ("Byul. In-ta astrofiz. AN TadzhSSR", 1959, no. 27, 17-

TEXT: On the basis of the known theory of resonance reflection from meteoric trails of radio waves with transverse polarization of electric vector (RZhAstr, 1958, no. 8, 5060), the author considers the effect of resonance on duration of reflection and on measurements of diffusion coefficient. Taking into account the parabolic shape of the meteoric trail, the formula is derived for duration of $r\epsilon$ -

where \mathcal{T} is duration of reflection for radio waves with parallel polarization; eta 1Max is colarization ratio for maximum amplitudes depending on the length of the

Card 1/2

237:03

Polarization effect ...

3/935/61/000/004/034/038 A001/A101

trail section undergoing resonance. When diffusion coefficient D is determined on the basis of conventional formulae, which do not take into account the resonance effect, its value proves to be overestimated

$$\delta D = \frac{\ln \rho_{1Max}}{1 - \ln \rho_{1Max}}.$$

Errors in determining D can attain 100%. Many graphs are presented which illustrate the results of calculations. There are 5 references.

V. Lebedinets

[Abstracter's note: Complete translation]

Card 2/2

3(1)

AUTHOR: Nemirova, E.K.

SOV/33-36-2-25/27

TITLE

Some Results of Preliminary Observations of Resonance

Scattering by Meteor Trails

PERIODICAL:

Astronomicheskiy zhurnal, 1959, Vol 36, Nr 2, pp 377-379 (USSR)

ABSTRACT:

At the Tomsk Polytechnical Institute special observations have been carried out for an investigation of the influence of resonance, during the scattering of radio waves by meteor trails, on the exactness in the determination of some meteor characteristics. In the present note the author presents some results

of preliminary observations.

There are 1 figure, 2 tables, and 2 references, 1 of which is

Soviet, and 1 English.

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnical

Institute)

SUBMITTED:

June 20, 1958

Card 1/1

3(1) AUTHOR:

Nemirova, E.K.

SOV/33-36-3-13/29

10

TITLE:

On the Role of the Resonance Effects for the Measurement of Meteor Velocities

PERIODICAL: Astronomicheskiy zhurnal, 1959, Vol 36, Nr 3, pp 481-486 (USSR)

ABSTRACT:

The author considers the resonance scattering of radio waves by meteor trails. The calculations show that the resonance influences not only the variation of the intensity of the reflecting signal but also causes a timely displacement of the diffraction curves and a change of the periods and depth of pulsation, whereby there arises an essential error in the determination of the meteor velocity. Since the resonance only appears under very special assumtions, the author proposes to eliminate the error by a static treatment of the results of measurement. The author thanks G.A.Zhitkova for the aid during the calculations.

There are 7 figures, and 6 non-Soviet references, of which 1 is English, ! German, ! Swedish, and 3 American.

ASSOCIATION: Tomskiy politekhnicheskiy institut imeni S.M.Kirova (Tomsa

Polytechnical Institute imeni S.M.Kirov)

SUBMITTED:

September 6, 1957 Card 1/1

22098 \$/035/61/000/003/02./048 A001/A101

6,4700

AUTHOR:

Nemirova, E.K.

TITLE:

The polarization effect at reflection of radio waves from meteoric

trails

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 3, 1961, 49, abstract 3A427 ("Tr. Sibirsk. fiz.-teknn. in-ta pri Tomskon un-te",

1959, no. 37, 247 - 260)

TEXT: The author considers specific features of resonance scattering of radio waves in a case of a parabolic meteor trail. She estimates the resonance effect on the shape of diffraction pattern while measuring the speeds of meteors. It is pointed out that distortion degree of diffraction pattern increases with increasing wavelength and electronic density. Resonance effects are taken into account in measuring diffusion coefficient in meteor trails in a case of cylindrical trail. The conclusion is drawn that measurements of diffusion coefficient must be conducted on trails with a sufficiently high linear electronic density and a sufficiently small angles between the trail axis and the electric field vector. There are 12 references.

[Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 03/14/2001

Card 1/1

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\$/03/./61/000/xx3/x23/x48 A001/A101

6,4700

AUTHORS: Nemirova, E.K., Peregudov, F.I.

TITLE:

The radar station of TPI-1 for investigations of meteoric trails

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 3, 1961, 49, abstract 3A425 ("Sb. Sibirsk, fiz.-tekhn, in-ta pri Tomskom un-te",

1959, no. 37, 280 - 290)

The authors present the block-diagram and describe the operation of TEXT: main units of a meteor radar station constructed by a team of the Tomsk Polytechnical Institute. The station operates at a wavelength of λ = 10 m and has the following parameters: pulse power 100 kw, pulse duration = 5/ sec, frequency of pulse repetition = 300 and 600 pulse/sec, actual sensitivity of the receiver \sim 10⁻¹³w, antennas are half-wave oscillators lifted to a height of λ /3 above the ground surface. Some results of meteor observations at this station are presented.

V. Nasledník

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R001136520011-1" APPROVED FOR RELEASE: 03/14/2001

NEMIROVA, E.K.

Errors in measuring the velocities of meteors by the method of spaced reception. Izv. TPI 105:41-44 '60. (MIRA 16:8)

1. Predstavleno nauchnym seminarom radiotekhnicheskogo fakuliteta Tomskogo ordena Trudovogo Krasnogo Znameni politekhnicheskogo instituta imeni Kirova.

(Meteors) (Radar in astronomy)

43284

s/831/62/000/008/005/016

E192/E382

3.2440 AUTHORS:

Fialko, Ye.I., Peregudov, F.I., Nemirova, E.K.,

Pokrovskiy, L.A.

TITLE:

Radar observations on meteors at Tomsk

SOURCE:

Ionosfernyye issledovaniya (meteory). Sbornik statey,

no.8. V razdel programmy MGG (ionosfera).

Nezhduved, geofiz. kom. AN SSSR. Moscow, Izd-vo

AN SSSR, 1962, 41-44

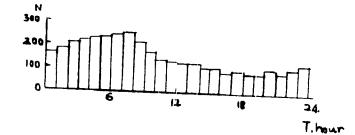
TEXT: Systematic radar observations of meteors at Tomskiy politekhnicheskiy institut im. S.h.Kirova (Tomsk Polytechnical Institute imeni S.M.Kirov) have been conducted as part of the IGY program. Special equipment, type TNM-2 (TPI-2), with wavelength of 10 m, pulse power 100 kW, pulse-duration 5 μs and pulsing frequency 600 cps, was used. Between July and December 1957, the overall observation time was 602 hours, during which 135000 reflections were observed. Between January and June 1958, the total observation time was 541 hours and the number of recorded reflections was 46000. The average number of recorded meteors per hour was $N \cong 160$ but the average for various days deviated Card 1/3

Radar observations on ...

5/831/62/000/008/005/016 E192/E382

considerably from \overline{N} . An idea of the daily variation of the meteor activity can be obtained from Fig.1, which shows N as a function of the time of the day. The distribution of time intervals between neighbouring meteor reflections can be approximated by an exponential law which confirms the random character of the appearance of meteors in the atmosphere. The distribution of the echo durations obeys an inverse proportional law, as can be seen from Fig.4. The drift velocity of the meteors varies from 0 to 50 m/s. the average being 25 m/s. There are 5 figures.





APPROVED FOR RELEASE: 03/14/2001

Card 2/3

CIA-RDP86-00513R001136520011-1"

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6.4731

AUTHORS:

Fialko, Ye.I., Peregudov, F.I., Nemirova, E.K., Zubarev, G.S., Zolotarev, I.D. and Pokrovskiy, L.A.

Radar equipment for meteor observations at Tomsk TITLE:

Ionosfernyye issledovaniya (meteory). Sbornik statey, SOURCE:

no. 8. V razdel programmy MGG (ionosfera). Mezhduved. geofiz. kom. AN SSSR. Moscow, Izd-vo AN SSSR, 1962,

45 - 50

Radar equipment, type TNN-2 (TPI-2), has been used for TEXT: meteor observations at Tomsk since May, 1957. Apart from that, additional equipment, type N-3, was designed and built for operating at the wavelength of 4 m. The TPI-2 equipment operates at the wavelength of 10 m and permits determination of the range of \boldsymbol{a} meteor track, its velocity and the radial component of the drift velocity of the track. The pulse-power of the radar transmitter is 100 kW, pulse duration 5 μs , pulsing frequency 600 c.p.s. (each alternate pulse being doubled) and its maximum range is $400 \, \text{km}$. The sensitivity of the receiver is $10^{-12} \, \text{W}$, the antenna being in the form of a half-wave dipole situated at a height of $\lambda/3$ above the Card 1/4

CIA-RDP86-00513R001136520011-1" **APPROVED FOR RELEASE: 03/14/2001**

Radar equipment

5/831/62/000/008/006/016 E192/E382

Earth. The transmitter equipment consists of: 1 - an excitation unit; 2 - high-frequency unit; 3 - output stage; 4 - modulator; 5 - rectifier circuit; 6 - sub-modulator unit; 7 - rectifier unit for 800 V; 8 - rectifier unit for 1 250 V; 9 - rectifier unit for 4 kV; 10 - high-voltage rectifier for 10 kW; 11 - control unit; 12 - rectifier circuits for 250 V and 2 kV; 13 - control panel and 14 - magnetic stabilizer. The transmitter employs a number of power-amplification stages, the output stage being capable of giving 100 kW pulse output. All the transmitter stages, except the quartz stabilized driver oscillator, operate under pulse conditions. The excitation unit consists of the driver, a buffer amplifier, power amplifier, tripler and a "coherent" voltage stage. The driver generates a frequency of 5 Mc/s and its anode circuit is tuned to 10 Mc/s. The buffer amplifier operates without grid currents and the following amplifier stage operates in class C; the tripler produces a frequency of 30 Mc/s and this is fed to the high-frequency unit consisting of two power stages. The modulating equipment consists of a sub-modulator and a modulator, the sub-modulator being driven by anode pulses with a Card 2/4

Radar equipment

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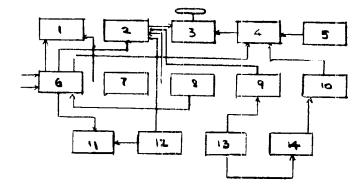
duration of 5 μs , the grid pulses having a duration of 7 μs or gating pulses of 50 to 70 µs duration. The modulator produces powerful output pulses in the output stage and is based on discharging a storage capacitance. The output pulses from the modulator transformer secondary is applied to the anodes of the output tubes. The receiver equipment comprises a device for coherent pulse reception, range-measuring devices for amplitude and brightness, meteor-velocity indicator, drift indicator, noise suppressor, a synchronizing device, a photo-synchronization unit, coherent-pulse drift indicator and power supplies. are recorded on a chotographic film moving with a velocity of The meteors 3 cm/min; under special conditions this can be increased to 7º cm/min. The range-indicator is used for visual observation of the reflected signals. The velocity of meteors is measured by the diffraction-pulse method (J.G.Davies, C.D.Ellyett, Philos. Mag., ser.7, v.40, no.305, 1949), the time-base being triggered by the signal reflected from the meteor. The equipment N=3operates at a wavelength of 4 m and is used for recording the number, range and duration of meteor reflections. The equipment

Radar equipment

\$/831/62/000/008/006/016 E192/E382

has a nulse power of $100~\rm kW$, repetition frequency of $600~\rm cms$ and pulse-duration of 3 us; it is furnished with a half-wave dipole antenna situated at a height of $\lambda/3$ above the Earth and a Yagi-tyne directional antenna.

Fig.1.



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ACCESSION NR: AR3010553

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SOURCE: RZh. Fizika, Abs. 9Zh287

AUTHOR: Nemirova, E. K.

TITLE: Character of meteor radio echoes in observations of the resonance effect at 10 meter wavelength

CITED SOURCE: Izv. Tomskogo politekha. in-ta, v. 100, 1962, 35-40

TOPIC TAGS: meteor radio echoes, resonance effect, plasma resonance, diffraction pattern, polarization

TRANSLATION: Observations of the polarization effect at a wavelength of 10 meters have shown the following: 1) Plasma resonance can exist at 10 meter wavelength. 2) Resonance causes distortion of the diffraction pattern; the calculated variation of the distortion is confirmed by experiments. 3) In many cases the polarization

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effect is observed also in stable meteor tracks.

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